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WHAT IS CLAIMED IS:

1. An elastically stretchable nonwoven fabric comprising elastically stretchable first fibers made of a first polymer
5 and inelastically stretchable second fibers made of a second polymer, said nonwoven fabric being characterized by that:

said nonwoven fabric has first and second surfaces as viewed in its thickness direction, said first and second surfaces extending in parallel to each other, said second fiber
10 is bonded to said first fiber at attaching areas formed intermittently along said first fiber and spaced apart from said first fiber between each pair of said attaching areas neighboring to each other, each segment of said second fiber spaced apart from said first fiber between each pair of said
15 attaching areas neighboring to each other being longer than an associated segment of said first fiber, and the number of said second fiber is in a range of 1 to 16 per each first fiber.

2. The nonwoven fabric according to Claim 1, wherein said
20 first and second fibers intersect with each other in such a manner that said first fiber lies inside and said second fiber lies outside in one of said first and second surfaces.

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3. The nonwoven fabric according to Claim 1, wherein said first fiber has on its circumferential surface first curved surfaces each bulging radially outward from an axis of said first fiber and second curved surfaces each depressed radially toward said axis of said first fiber, said first and second curved surfaces alternately appearing in a circumferential direction of said first fiber, and each pair of said first curved surfaces neighboring to each other in said circumferential direction cooperate with said second curved surface lying between said pair of said first curved surfaces neighboring to each other to form a groove extending in a longitudinal direction of said first fiber so that said second curved surface defines a bottom of said groove.

4. The nonwoven fabric according to Claim 1, wherein one of said first and second surfaces has a slip angle of 25° to 40°.

5. The nonwoven fabric according to Claim 1, wherein said first polymer is selected from the group consisting of thermoplastic polyurethane and thermoplastic polyurethane containing a lubricant and said second polymer is selected from the group consisting of polyolefin-based polymer and polyamide-based polymer.

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6. A process for making an elastically stretchable nonwoven fabric formed by elastically stretchable first fibers made of a first polymer and inelastically stretchable second fibers made of a second polymer, said process comprising steps of:

5 feeding, in a machine direction, a plurality of conjugated fibers each consisting of a first fibrous component made of said first polymer and a second fibrous component extending in parallel to and releasably attached to a surface of said first fibrous component and thereby forming a web from
10 said conjugated fibers having a basis weight in a range of 10 to 500g/m²;

forming said web with a plurality of attaching areas intermittently formed in at least one direction of said machine direction and a cross direction intersecting orthogonally said
15 machine direction so that said conjugated fibers can not be separated one from another at said attaching areas;

stretching said web at least in said one direction within an elastic range of the first fibrous component and under a failure point of said second fibrous component and thereby
20 separating said first and second fibrous components one from another between each pair of said attaching areas neighboring to each other and permanently deforming said second fibrous component; and

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allowing said web to contract under an elastic recovery force of said first fibrous component so that said first fiber is obtained from said first fibrous component, said second fiber is obtained from said second fibrous component and said nonwoven
5 fabric is obtained from said web.

7. The process according to Claim 6, wherein said first fibrous component of said conjugated fiber has on its circumferential surface first curved surfaces each bulging
10 radially outward from the axis of said first fibrous component and second curved surfaces each depressed radially toward said axis of said first fibrous component, said first and second curved surfaces alternately appearing in a circumferential direction of said first fibrous component, and each pair of said
15 first curved surfaces neighboring to each other in said circumferential direction cooperate with said second curved surface lying between said pair of said first curved surfaces neighboring to each other to form a groove extending in a longitudinal direction of said first fibrous component so that
20 said second fibrous component extends in parallel to said first fibrous component in said groove.

8. The process according to Claim 6, wherein the

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circumferential length of said conjugated fiber occupied by said second fibrous component is in a range of 40 to 90% of the whole circumferential length of said conjugated fiber.

5 9. The process according to Claim 6, wherein the number of said second fibrous component constituting said conjugated fiber is in a range of 1 to 16 per one of said first fibrous component.

10 10. The process according to Claim 6, wherein said first polymer is selected from the group consisting of thermoplastic polyurethane and thermoplastic polyurethane containing a lubricant and said second polymer is selected from the group consisting of polyolefin-based polymer and polyamide-based
15 polymer.